# KENWOOD

# DUAL DIN SIZED CD RECEIVER DPX-MP2100 INSTRUCTION MANUAL

Kenwood Corporation



© B64-3612-00/00 (MW)

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# **A**WARNING

# To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

# **A**CAUTION

# To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- When replacing a fuse, only use a new fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Use only the screws provided or specified for installation. If you use wrong screws, you could damage the unit.

## Do Not Load 8 cm (3 in.) CDs in the CD slot

If you try to load a 8 cm (3 in.) CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

## Lens Fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, this condensation on the lens may not allow CDs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

# About CD players/disc changers connected to this unit

Kenwood disc changers/ CD players released in 1998 or later can be connected to this unit.

Refer to the catalog or consult your Kenwood dealer for connectable models of disc changers/ CD players. Note that any Kenwood disc changers/ CD players released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit. Connecting unsupported disc changers/CD players to this unit may result in damage.

Set the "O-N" Switch to the "N" position for the applicable Kenwood disc changers/ CD players. The functions you can use and the information that can be displayed may differ depending on the models being connected.



• You can damage both your unit and the CD changer if you connect them incorrectly.

# The marking of products using lasers (Except for some areas)



The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. This means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit

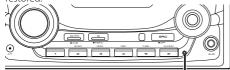
The "AAC" logo is trademark of Dolby Laboratories.

# Notes

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- The characters which can be displayed by this unit are A-Z 0-9 @ "'`% & \* + - = , ./ \ < > []():; ^ - {} | ~.
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may be inapplicable.

#### How to reset your unit

- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.



Reset button

# **Cleaning the Unit**

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth.

If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.

# $\wedge$

 Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

# About Audio file

• Playable Audio file

AAC (.m4a), MP3 (.mp3), WMA (.wma)

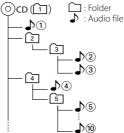
Playable disc media
 CD-R/RW/ROM

## • Playable disc file format

ISO 9660 Level 1/2, Joliet, Romeo, Long file name. Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

# Playing order of the Audio file

In the example of folder/file tree shown below, the files are played in the order from to .



An online manual about audio files is put on the site, **www.kenwood.com/audiofile**/. On this online manual, detailed information and notes which are not written in this manual are provided. Make sure to read through the online manual as well.

# Handling CDs

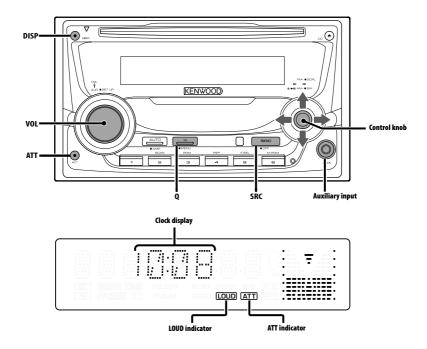
- Do not touch the recording surface of the CD.
- Do not stick tape etc. on the CD, or use a CD with tape stuck on it.
- Do not use disc type accessories.
- Clean from the center of the disc and move outward.
- When removing CDs from this unit, pull them out horizontally.
- If the CD center hole or outside rim has burrs, use the CD only after removing the burrs with a ballpoint pen etc.

# CDs that cannot be used

CDs that are not round cannot be used.



- CDs with coloring on the recording surface or CDs that are dirty cannot be used.
- This unit can only play the CDs with disc disc disc
- This unit may not correctly play discs which do not have the mark.
- You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)



#### Power

#### **Turning ON the Power**

Press the [SRC] button.

#### **Turning OFF the Power**

Press the [SRC] button for at least 1 second.

# **Selecting the Source**

#### Press the [SRC] button.

| Source required                      | Display   |  |
|--------------------------------------|-----------|--|
| Tuner                                | "TUNER"   |  |
| CD                                   | "CD"      |  |
| TV (Optional accessory)              | "TV"      |  |
| External disc (Optional accessory)   | "CD CH"   |  |
| Auxiliary input*                     | "AUX"     |  |
| Auxiliary input (Optional accessory) | "AUX EXT" |  |
| Standby (Illumination only mode)     | "STANDBY" |  |

\* An equipment such as a portable audio player can be connected to the auxiliary input terminal using a commercially available mini-plug (3.5ø).



• Use the mini-plug which is stereo type and does not have any resistance.

## Volume

#### Increasing Volume

Turn the [VOL] knob clockwise.

#### **Decreasing Volume**

Turn the [VOL] knob counterclockwise.

# Attenuator

Turning the volume down quickly.

#### Press the [ATT] button.

Each time you press the button, the Attenuator turns ON and OFF.

When the Attenuator is ON, the "ATT" indicator blinks.

# System Q

Selecting the best sound setting preset for different types of music.

- **1** Select the source to set Press the [SRC] button.
- 2 Select the Sound type Press the [Q] button.

Each time you press the button, the sound setting alternates.

| Sound setting | Display   |
|---------------|-----------|
| Natural       | "NATURAL" |
| User memory   | "USER"    |
| Rock          | "ROCK"    |
| Pops          | "POPS"    |
| Easy          | "EASY"    |
| Top 40        | "TOP40"   |
| Jazz          | "JAZZ"    |

# 

- User memory: The values set on the <Audio Control>
   (page 6).
- Change each setting value with the <Speaker Setting> (page 8).

First, select the speaker type with the Speaker setting.

# Audio Control

- 1 Select the source to adjust Press the [SRC] button.
- 2 Enter Audio Control mode Press the [VOL] knob.
- **3** Select the Basic Audio item to adjust Press the [VOL] knob.

Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

#### 4 Adjust the Basic Audio item Turn the [VOL] knob.

| Adjustment Item                               | Display | Range              |
|---|---------|--------------------|
| Subwoofer level                               | "SW L"  | -15+15             |
| Bass level*                                   | "BAS L" | -8-+8              |
| Middle level*                                 | "MID L" | -8+8               |
| Treble level*                                 | "TRE L" | -8-+8              |
| Balance                                       | "BAL"   | Left 15 — Right 15 |
| Fader   | "FAD"   | Rear 15 — Front 15 |
| Exit Audio Control mode (Volume control mode) |         |                    |

<sup>\*</sup> You can adjust these items in detail. Refer to <Adjusting the detail of Audio Control>(Page 7).

#### 5 Exit Audio Control mode Press any button.

Press a button other than the [VOL] knob and [ATT] button.

<sup>\*</sup> Source tone memory: Puts the set up value in the memory per source. (Detail Audio item is included)

# Adjusting the detail of Audio Control

Among the Basic Audio items, you can adjust the Bass level, Middle level, and Treble level in detail.

#### 1 Select the Basic Audio item

Select the desired item to be set in detail from followings;

- Bass level
- Middle level
- Treble level

For how to select Basic Audio items, see < Audio Control> (page 6).

#### 2 Enter Detail adjustment mode of Audio Control Press the [VOL] knob for at least 1 second.

#### **3** Select the Detail Audio item to adjust Press the [VOL] knob.

Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

#### 4 Adjust the Detail Audio item Turn the [VOL] knob.

#### Bass level

| Adjustment Item       | Display | Range                             |
|-----------------------|---------|-----------------------------------|
| Bass Center Frequency | "BAS F" | 40/50/60/70/80/100/<br>120/150 Hz |
| Bass Q Factor         | "BAS Q" | 1.00/1.25/1.50/2.00               |
| Bass Extend           | "B EX"  | OFF/ON                            |

#### Middle level

| Adjustment Item         | Display | Range               |
|-------------------------|---------|---------------------|
| Middle Center Frequency | "MID F" | 0.5/1.0/1.5/2.0 kHz |
| Middle Q Factor         | "MID Q" | 1.0/2.0             |

#### Treble level

| Adjustment Item         | Display | Range                   |
|-------------------------|---------|-------------------------|
| Treble Center Frequency | "TRE"   | 10.0/12.5/15.0/17.5 kHz |

## 5 Exit the Detail Audio Control mode Press the [VOL] knob for at least 1 second.



- When you set the Bass Extend to ON, low frequency response is extended by 20%.
- You can exit the Audio Control mode at anytime by pressing any button except for [VOL] and [ATT] buttons.

# **Audio Setup**

Setting the Sound system, such as Cross over Network.

- 1 Select the source to adjust Press the [SRC] button.
- 2 Enter Audio Setup mode Press the [VOL] knob for at least 1 second.
- **3** Select the Audio Setup item to adjust Press the [VOL] knob.

Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

#### 4 Setup the Audio item Turn the [VOL] knob.

| Adjustment Item        | Display | Range                                       |
|------------------------|---------|---|
| Front High Pass Filter | "HPF"   | Through/40/60/80/100/120/<br>150/180/220 Hz |
| Rear High Pass Filter  | "HPR"   | Through/40/60/80/100/120/<br>150/180/220 Hz |
| Low Pass Filter        | "LPF"   | 50/60/80/100/120/Through Hz                 |
| Subwoofer Phase        | "PHAS"  | Reverse (180°)/ Normal (0°)                 |
| Volume offset          | "V-OFF" | -8 ±0 (AUX: -8 +8)                          |
| Loudness               | "LOUD"  | OFF/ON                                      |



- Volume offset: Sets each source's volume as a difference from the basic volume.
- Loudness: Compensates for low and high tones during low volume. (Only the low tone is compensated for when the tuner is selected as a source.)

#### 5 Exit Audio Setup mode Press the [VOL] knob for at least 1 second.

# **Speaker Setting**

Fine-tuning so that the System Q value is optimal when setting the speaker type.

#### 1 Enter Standby

**Press the [SRC] button.** Select the "STANDBY" display.

- 2 Enter Speaker Setting mode Press the [VOL] knob.
- **3** Select the Speaker type Turn the [VOL] knob.

Each time you turn the knob, the setting alternates between the settings shown in the table below.

| Speaker type            | Display    |
|-------------------------|------------|
| OFF                     | "SP OFF"   |
| For 5 & 4 in. speaker   | "SP 5/4"   |
| For 6 & 6x9 in. speaker | "SP 6*9/6" |
| For the OEM speaker     | "SP OEM"   |

# 4 Exit Speaker Setting mode

Press the [VOL] knob.

# Subwoofer Output

Turning the Subwoofer output ON or OFF.

# Push the Control knob toward down for at least 2 seconds.

Each time you push the knob, Subwoofer output switches ON and OFF. When it is ON, "SW ON" is displayed. TEL Mute

The audio system automatically mutes when a call comes in.

#### When a call comes in

"CALL" is displayed. The audio system pauses.

#### Listening to the audio during a call Press the [SRC] button.

The "CALL" display disappears and the audio system comes back ON.

#### When the call ends

#### Hang up the phone.

The "CALL" display disappears and the audio system comes back ON.



 To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connecting Wires to Terminals> (page 24).

# **Switching Display**

#### Changing the information displayed.

#### Press the [DISP] button.

Each time the button is pressed the display switches as shown below.

#### In Tuner source

| Information | Display |
|-------------|---------|
| Frequency   | "FREQ"  |
| Clock       | "CLOCK" |

### In CD & External disc source

| Information | Display   |
|-------------|-----------|
| Disc title  | "D-TITLE" |
| Track title | "T-TITLE" |
| Play time   | "P-TIME"  |
| Clock       | "CLOCK"   |

#### In Audio file source

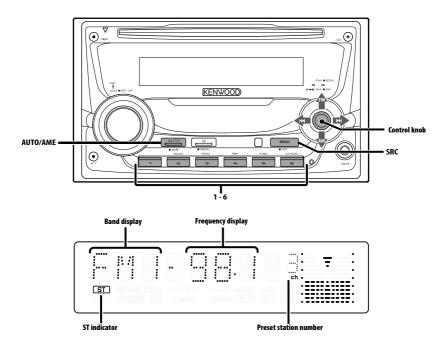
| Information               | Display  |
|---------------------------|----------|
| Music title & Artist name | "TITLE"  |
| Album name & Artist name  | "ALBUM"  |
| Folder name               | "FOLDER" |
| File name                 | "FILE"   |
| Play time                 | "P-TIME" |
| Clock                     | "CLOCK"  |

#### In Standby/ Auxiliary input source

| Information | Display    |  |
|-------------|------------|--|
| Source name | "SRC NAME" |  |
| Clock       | "CLOCK"    |  |

 $\bigcirc$ 

- If the selected display item does not have any information, alternative information is displayed.
- · Album name cannot be displayed in WMA file.
- When you select the clock display, the display setting of each source will be changed to the clock display.



# Tuning

Selecting the station.

1 Select tuner source Press the [SRC] button.

Select the "TUNER" display.

#### 2 Select the band

Push the Control knob towards [FM] or [AM].

Each time you push the knob toward [FM], it switches between the FM1, FM2, and FM3 bands.

#### 3 Tune up or down band

Push the Control knob towards [I◄◀] or [►►I].

• During reception of stereo stations the "ST" indicator is ON.

# **Tuning Mode**

Choose the tuning mode.

#### Press the [AUTO] button.

Each time you press the button, the Tuning mode alternates between the modes shown in the table below.

| Tuning mode         | Display  | Operation   |
|---------------------|----------|---|
| Auto seek           | "AUTO 1" | Automatic search for a station.                       |
| Preset station seek | "AUTO 2" | Search in order of the stations in the Preset memory. |
| Manual              | "MANUAL" | Normal manual tuning control.                         |

#### Function of remote control

# **Direct Access Tuning**

Entering the frequency and tuning.

- 1 Select the band Press the [FM] or [AM] button.
- 2 Enter Direct Access Tuning mode Press the [DIRECT] button on the remote control. "- - - -" is displayed.

# **3 Enter the frequency** Press the number buttons on the remote control.

Example:

| Desired frequency | Press button       |  |
|-------------------|--------------------|--|
| 92.1 MHz (FM)     | [0], [9], [2], [1] |  |
| 810 kHz (AM)      | [0], [8], [1], [0] |  |

#### **Cancelling Direct Access Tuning**

Press the [DIRECT] button on the remote control.



 You can enter the FM band frequency in steps of a minimum of 0.1 MHz.

# **Station Preset Memory**

Putting a station in the memory.

- 1 Select the band Push the Control knob towards [FM] or [AM].
- 2 Select the frequency to put in the memory Push the Control knob towards [I◄◄] or [►►I].
- **3** Put the frequency in the memory Press the desired [1] — [6] button for at least 2 seconds.

The preset number display blinks 1 time. On each band, 1 station can be put in the memory on each [1] — [6] button.

# **Auto Memory Entry**

Putting stations with good reception in the memory automatically.

- **1** Select the band for Auto Memory Entry Push the Control knob towards [FM] or [AM].
- 2 Open Auto Memory Entry Press the [AME] button for at least 2 seconds. "A-MEMORY" is displayed. When 6 stations that can be received are put in the memory Auto Memory Entry closes.

# **Preset Tuning**

Recalling the stations in the memory.

- **1** Select the band Push the Control knob towards [FM] or [AM].
- **2** Recall the station Press the desired [1] — [6] button.

# **Frequency Step Setting**

Changing the tuning frequency step. The original setting is FM band 50 kHz, and AM band 9 kHz.

- **1 Turn the power OFF** Press the [SRC] button for at least 1 second.
- 2 Switch the frequency step While pressing the [1] and [5] buttons, press the [SRC] button.

Release the [SRC] button first, after the display appears, release your fingers from the [1] and [5] buttons.

The frequency step changes to FM band 200 kHz, and AM band 10 kHz.

# $\square$

- When the same operation is repeated, the frequency step returns to the original setting.
- When the frequency step is changed, the frequencies in the memory are deleted.

# Tuner/TV control features

Function of LX BUS Television

# **TV** Tuning

Selecting the TV channel of a connected LX BUS Television (optional accessory). The action depends on the setting of the connected LX BUS Television. Refer to the user instruction of the LX BUS Television for details.

#### 1 Select TV source Press the [SRC] button. Select the "TV" display.

- 2 Select the TV band and Video input Push the Control knob toward [FM]. Each time you push the knob to [FM], TV bands and Video input alternate.
- 3 Select the TV channel Push the Control knob towards [I◄◀] or [►►I].

#### Function of LX BUS Television

# **TV channel Preset Memory**

Putting the TV channels in the memory.

- 1 Select the TV band Push the Control knob toward [FM].
- 2 Select the TV channel to put in the memory Push the Control knob towards [I◄◄] or [►►I].
- **3** Put the TV channel in the memory Press the desired [1] — [6] button for at least 2 seconds.

The preset number display blinks 1 time. On each band, 1 TV channel can be put in the memory on each [1] — [6] button. Function of LX BUS Television

## Preset TV Tuning

Recalling the TV channels in the memory.

- 1 Select the TV band Push the Control knob toward [FM].
- **2** Recall the TV channel Press the desired [1] — [6] button.

Function of remote control

## **Direct TV Tuning**

Entering the TV channel and tuning.

- 1 Select the TV band Press the [FM] button.
- 2 Enter Direct TV Tuning mode Press the [DIRECT] button on the remote control. "--" is displayed.
- 3 Enter the TV channel

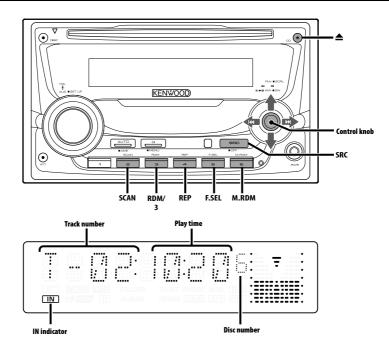
Press the number buttons on the remote control.

Example:

| Desired channel | Press button |  |
|-----------------|--------------|--|
| 8 ch            | [0], [8]     |  |

#### **Cancelling Direct TV Tuning**

Press the [DIRECT] button on the remote control.



# **Playing CD & Audio file**

#### When a disc is inserted

## Press the [SRC] button.

Select the "CD" display.



• When a CD is inserted, the "IN" indicator is ON.

#### Pause and play

#### Press the Control knob.

Each time you press the knob, the audio pauses or plays.

#### Eject the CD

#### Press the [▲] button.



- For the audio files and discs you can play with this unit, refer to <About Audio file> (page 4).
- You can eject the disc for 10 minutes after switching off the engine.

# **Playing External Disc**

Playing discs set in the optional accessory disc player connected to this unit.

#### Press the [SRC] button.

Select the display for the disc player you want. **Display examples:** 

| Display | Disc player |  |
|---------|-------------|--|
| "CD CH" | CD changer  |  |
| "MD CH" | MD changer  |  |

#### Pause and play

#### Press the Control knob.

Each time you press the knob, the audio pauses or plays.



- Disc 10 is displayed as "0".
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

# CD/Audio file/External disc control features

# **Fast Forwarding and Reversing**

#### Fast Forwarding

Hold down toward [►►I] with the Control knob. Release to resume the playback.

#### Reversing

# 

- There is no sound while the Audio file is being searched.
- The accurate play time is not displayed during fast forwarding or reversing of the Audio file.
- You cannot fast Forwarding and Reversing while AAC file is being played.

# Track/File Search

Searching for a music on the disc or in the Audio file folder.

Push the Control knob towards [I◄◄] or [►►I].

# Function of disc changer/ Audio file

#### **Disc Search/Folder Search**

Selecting the disc set in the Disc changer or the folder recorded on the Audio file media.

Push the Control knob towards up or down.

# Function of remote control

# **Direct Music Search**

Doing Music Search by entering the music number.

#### 1 Enter the music number Press the number buttons on the remote control.

2 Do music Search Press the [I◄◄] or [►►I] button.

#### **Cancelling Direct Music Search** Press the [►II] button.

Function of disc changers with remote control **Direct Disc Search** 

Doing Disc Search by entering the disc number.

- 1 Enter the disc number Press the number buttons on the remote control.
- 2 Do Disc Search Press the [+] or [-] button.

#### Cancelling Direct Disc Search Press the [►II] button.

Input "0" to select disc 10.

# Track/File/Disc/Folder Repeat

Replaying the music, disc in the Disc changer or Audio file folder you are listening to.

#### Press the [REP] button.

Each time you press the button, the Repeat Play alternates between the modes shown in the tables below.

#### In CD & External disc source

| Repeat play                   | Display    |  |
|-------------------------------|------------|--|
| Track Repeat                  | "TRAC REP" |  |
| Disc Repeat (In Disc Changer) | "DISC REP" |  |
| OFF                           | "REP OFF"  |  |

#### In Audio file source

| Repeat play   | Display    |
|---------------|------------|
| File Repeat   | "FILE REP" |
| Folder Repeat | "FOLD REP" |
| OFF           | "REP OFF"  |

# **Scan Play**

Playing the first part of each music on the disc or Audio file folder you are listening to and searching for the music you want to hear.

#### 1 Start Scan Play

Press the [SCAN] button.

"TRAC SCN"/"FILE SCN"/"SCAN ON" is displayed.

2 Release it when the music you want to listen to is played Press the [SCAN] button.

## **Random Play**

Play all the music on the disc or Audio file folder in random order.

#### Press the [RDM] button.

Each time you press the button, Random Play turns ON or OFF.

When the Random mode is ON, "DISC RDM"/"FOLD RDM"/"RDM ON" is displayed.



• When you push the Control knob toward [>>], the next selected music starts.

# Function of disc changer

# **Magazine Random Play**

Play the music on all the discs in the disc changer in random order.

#### Press the [M.RDM] button.

Each time you press the button, the Magazine Random Play turns ON or OFF. When the Magazine Random mode is ON, "MGZN RDM" is displayed.



• When you push the Control knob toward [>>], the next selected music starts.

# Function of Audio file

**Folder Select** 

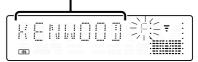
Quickly selecting the folder you want to hear.

#### 1 Enter Folder Select mode Press the [F.SEL] button.

"FOLD SEL" is displayed. During Select mode the folder information is displayed as shown below.

#### Folder name display

Displays the current folder name.



#### 2 Select the folder level

Push the Control knob towards up or down.

With the up of the Control knob, you move 1 level down and with the down of the Control knob, 1 level up.

#### Selecting a folder in the same level Push the Control knob towards right or left.

With the left of the Control knob, you move to the previous folder, and with the right of the Control knob, to the next folder.

**Returning to the top level** Press the [3] button.

#### Scrolling the folder name display

Push the Control knob toward up for at least 2 seconds.

#### **3** Decide the folder to play Press the Control knob.

The Folder Select mode releases, and the Audio file in the folder being displayed plays.

#### **Cancelling the Folder Select mode** Press the [F.SEL] button.

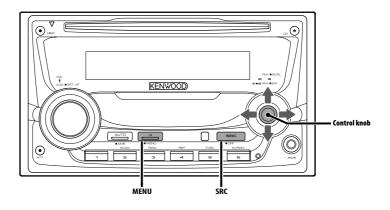
# Text/Title Scroll

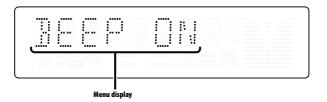
Scrolling the displayed CD text, Audio file text, or MD title.

Push the Control knob toward up for at least 2 seconds.



• When the <Display Illumination Control> (page 18) is set to OFF, the display may black out while scrolling.





# Menu System

Setting beep sound during operation, etc. functions.

The Menu system basic operation method is explained here. The reference for the Menu items and their setting content is after this operation explanation.

#### 1 Enter Menu mode

Press the [MENU] button for at least 1 second. "MENU" is displayed.

## 2 Select the menu item

Push the Control knob towards up or down. Example: When you want to set the beep sound select the "BEEP" display.

#### 3 Set the menu item

Push the Control knob towards right or left.

Example: When you select "BEEP", each time you push the knob it alternates between "BEEP ON" or "BEEP OFF". Select 1 of them as the setting.

You can continue by returning to step 2 and setting other items.

# 4 Exit Menu mode Press the [MENU] button.

 When other items those applicable to the basic operation method above are displayed, their setting content chart is entered. (Normally the setting listed at the top of the chart is the original setting.)
 Also, the explanation for items that are not applicable (<Manual Clock Adjustment> etc.) are entered step by step.

# In Standby mode Activating Security Code

Activating the Security Code disables the usage of audio unit by someone else. Once the Security Code is activated, the entry of authorized Security Code is required to turn on the audio unit when it is removed from the vehicle. Indication of this Security Code activation prevents your precious audio unit from stealing.

# 

- You can set the Security Code with a 4 digit number of your choice.
- The Security Code cannot be displayed or referenced. Make a note of the Security Code and treasure it up.

#### 1 Enter Standby

#### Press the [SRC] button.

Select the "STANDBY" display.

2 Enter Menu mode Press the [MENU] button for at least 1 second. When "MENU" is displayed, "CODE SET" is also displayed.

#### 3 Enter Security Code mode Press the Control knob for at least 1 second. When "ENTER" is displayed, "CODE" is also

displayed.

- 4 Select the digits to enter Push the Control knob towards right or left.
- **5** Select the Security Code numbers Push the Control knob towards up or down.
- **6** Repeat steps 4 and 5, and complete the Security Code.
- 7 Confirm the Security Code Press the Control knob for at least 3 seconds. When "RE-ENTER" is displayed, "CODE" is also displayed.
- 8 Do the step 4 through 7 operation, and reenter the Security Code.

"APPROVED" is displayed. The Security Code function activates.



• If you enter the wrong Code in steps 4 through 6, repeat from step 4.

#### Resetting the Security Code function when the audio unit is first used after removed from the battery power source or the Reset button is pressed

- 1 Turn the power ON.
- **2** Do the step 4 through 7 operation, and enter the Security Code.

"APPROVED" is displayed. Now, you can use the unit.



- When the Security Code function is activated, "CODE SET" changes to "CODE CLR".
- To deactivate the Security Code function, see the next section <Deactivating Security Code>.

#### In Standby mode

# **Deactivating Security Code**

To deactivate the Security Code function.

- 1 Select Security Code mode Push the Control knob towards up or down. Select the "CODE CLR" display.
- 2 Enter Security Code mode Press the Control knob for at least 1 second. When "ENTER" is displayed, "CODE" is also displayed.
- **3** Select the digits to enter Push the Control knob towards right or left.
- 4 Select the Security Code numbers Push the Control knob towards up or down.
- **5** Repeat steps 3 and 4, and complete the Security Code.
- **6** Press the Control knob for at least 3 seconds. "CLEAR" is displayed.

The Security Code function deactivates.



• If a wrong security code is entered, "ERROR" is displayed. Enter a correct security code.

## In Standby mode

## **Touch Sensor Tone**

Setting the operation check sound (beep sound) ON/OFF.

| Display    | Setting        |  |
|------------|----------------|--|
| "BEEP ON"  | Beep is heard. |  |
| "BEEP OFF" | Beep canceled. |  |

# Menu system

#### In Standby mode

#### **Manual Clock Adjustment**

- Select Clock Adjustment mode Push the Control knob towards up or down. Select the "CLK ADJ" display.
- 2 Enter Clock Adjust mode Press the Control knob for at least 1 second. The clock display blinks.
- **3** Adjust the hours Push the Control knob towards up or down.

Adjust the minutes Push the Control knob towards right or left.

**4 Exit Clock adjustment mode** Press the [MENU] button.

# **Display Illumination Control**

This function turns off the display when you perform no operation for 5 seconds. This function is effective when you are driving at night.

| Display    | Setting  |
|------------|--|
| "DISP ON"  | Keeps the display on.  |
| "DISP OFF" | Turns off the display when you perform no operation for 5 seconds. |

- When the display is off, pressing any key will turn on the display.
- When the display is off, you cannot perform any operation except for the following:
  - Volume
  - Attenuator
  - Selecting the source
  - Ejecting the disc
  - Turning off the power
- During function control, such as the Menu System, the display stays on.

#### In Standby mode

#### Dimmer

Dimming this unit's display automatically when the vehicle light switch is turned ON.

| Display    | Setting                  |  |
|------------|--------------------------|--|
| "DIM AUTO" | The display dims.        |  |
| "DIM OFF"  | The display doesn't dim. |  |

#### In Standby mode

#### **Switching preout**

Alternating the preout between the rear and subwoofer. (With the subwoofer the sound outputs without being effected by fader control.)

| Display    | Setting           |
|------------|-------------------|
| "SWPRE R"  | Rear preout.      |
| "SWPRE SW" | Subwoofer preout. |

#### In Standby mode

# **Built-in Amp Setting**

Controlling the built-in amplifier. Turning OFF this control enhances the preout quality.

| Display   | Setting                             |
|-----------|-------------------------------------|
| "AMP ON"  | The built-in amplifier activates.   |
| "AMP OFF" | The built-in amplifier deactivates. |

#### In Audio file source

## **Supreme Setting**

When AAC, MP3 or WMA files encoded at a low bit rate (less than 96kbps (fs=44.1k, 48kHz)) are played, this function restores their high frequency region to approach the sound quality of equivalents of these files encoded at a high bit rate. Processing is optimized for the compression format used (AAC, MP3, or WMA), and adjustment is made for the bit rate used.

| Display    | Setting  |
|------------|--|
| "SPRM ON"  | Plays sound using the Supreme function.            |
| "SPRM OFF" | Plays the original sound stored in the audio file. |

 The sound effect may be imperceptible depending on the relationship between the audio file format and setting.

#### Other than Standby mode B.M.S. (Bass Management System)

Adjust the bass boost level of the external amplifier using the main unit.

| Display   | Setting                           |
|-----------|-----------------------------------|
| "BMS FLT" | Bass boost level is flat.         |
| "BMS +6"  | Bass boost level is low (+6dB).   |
| "BMS +12" | Bass boost level is mid (+12dB).  |
| "BMS +18" | Bass boost level is high (+18dB). |

- Refer to the catalog or instruction manual for power amplifiers that can be controlled from this unit.
- For amplifiers, there are the models you can set from Flat to +18 dB, and the models you can set from Flat to +12 dB.

When an amplifier that can only be set to +12 is connected to the unit, "BMS +18" will not work correctly even if it is selected.

# Other than Standby mode

# **B.M.S. Frequency Offset**

Setting the central frequency, boosted by B.M.S.

| Display    | Setting                                  |
|------------|--|
| "BMSF NML" | Boost with the normal central frequency. |
| "BMSF LOW" | Drop the normal central frequency 20%.   |

#### When LX AMP unit connecting

## AMP Control

You can control the LX AMP connected to the unit.

- 1 Select AMP Control mode Push the Control knob towards up or down. Select the "AMP CTRL" display.
- 2 Enter AMP Control mode Press the Control knob for at least 1 second.
- **3** Select the AMP Control item for adjustment Push the Control knob towards up or down.

#### 

• For the details on the AMP Control item, see the Instruction manual attached to the LX AMP.

4 Adjust the AMP Control item Push the Control knob towards right or left.

#### 5 Exit AMP Control mode Press the [MENU] button.



You cannot use the LX AMP operation during standby mode.

#### In FM reception

# **CRSC (Clean Reception System Circuit)**

Temporarily have reception alternate from stereo to mono to reduce multi-path noise when listening to the FM station.

| Display    | Setting          |  |
|------------|------------------|--|
| "CRSC ON"  | The CRSC is ON.  |  |
| "CRSC OFF" | The CRSC is OFF. |  |

# 

 Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned ON. In such a situation, turn it OFF.

# **Auxiliary Input Display Setting**

Selecting the display when changing to Auxiliary input source.

- 1 Select Auxiliary input source Press the [SRC] button. Select the "AUX"/ "AUX EXT" display.
- 2 Enter Menu mode Press the [MENU] button for at least 1 second. "MENU" is displayed.
- **3** Select Auxiliary input display setting mode Push the Control knob towards up or down. Select the "NAME SET" display.
- 4 Enter Auxiliary input display setting mode Press the Control knob for at least 1 second. The presently selected Auxiliary input display is displayed.

#### **5** Select the Auxiliary input display Push the Control knob towards right or left.

Each time you push the knob, the display alternates as listed below.

- "AUX"/ "AUX EXT"
- "DVD"
- "PORTABLE"
- "GAME"
- "VIDEO"
- "TV"

#### **6** Exit Auxiliary input display setting mode Press the [MENU] button.



- When operation stops for 10 seconds, the name at that time is registered, and the Auxiliary input display setting mode closes.
- The Auxiliary Input Display can be set only when the built-in auxiliary input or the auxiliary input of optional KCA-S220A is used.

# Text Scroll

Setting the displayed text scroll.

| Display    | Setting                           |
|------------|-----------------------------------|
| "SCL AUTO" | Repeats scroll.                   |
| "SCL MANU" | Scrolls when the display changes. |

- The text scrolled is listed below.
  - CD text
  - Folder name/ File name/ Music title/ Artist name/ Album name
  - MD title

# In Standby mode Built-in Auxiliary input Setting

Set the Built-in Auxiliary Input function.

| Display   | Setting   |
|-----------|---|
| "AUX OFF" | When selecting the source there's no Auxiliary Input. |
| "AUX ON"  | When selecting the source there's Auxiliary Input.    |

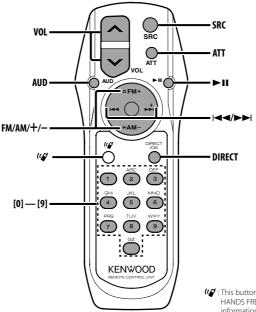
# In Standby mode

# CD Read Setting

When there is a problem with playing a CD with special format, this setting plays the CD by force.

| Display    | Setting                 |
|------------|-------------------------|
| "CD READ1" | Play CD and Audio file. |
| "CD READ2" | Play CD by force.       |

 Some music CDs may not play even in the "CD READ2" mode.

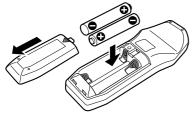


\* This button is used when Kenwood Bluetooth HANDS FREE BOX is connected. For more information, refer to the instruction manual of Bluetooth HANDS FREE BOX.

# Loading and Replacing the battery

Use two "AA"/ "R6"-size batteries. Slide the cover while pressing downwards to remove it as illustrated.

Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.



#### **A**WARNING

 Store unused batteries out of the reach of children.
 Contact a doctor immediately if the battery is accidentally swallowed.

# $\triangle$

• Do not set the remote control in hot places such as on the dashboard.

# **Basic operations**

#### [VOL] buttons

Adjusts the volume.

#### [SRC] button

Each time you press the button, the source alternates.

For the source alternating order refer to <Selecting the Source> (page 5).

#### [ATT] button

Turns the volume down quickly. When the button is pressed again, the volume returns to the previous level.

# **Audio Control**

#### [AUD] button

Selects the Audio item to be adjusted.

#### [VOL] buttons

Adjusts the Audio item.



- Refer to <Audio Control> (page 6) for the operation method, such as the procedures for Audio control and others operations.
- The remote control can only select and adjust the Basic Audio item. Selecting and adjusting of the Detail Audio item cannot be done.

# In Tuner source

#### [FM]/ [AM] buttons

Selects the band. Each time you press the [FM] button, the band alternates between the FM1, FM2, and FM3 bands.

#### [I◄◀]/ [►►I] buttons

Tune up or down band.

[0] — [9] buttons Press buttons [1] — [6] to recall preset stations.

#### [DIRECT] button

Enters and cancels the <Direct Access Tuning> (page 11) mode.

# In Disc source

#### [I◄◀]/ [►►I] buttons

Going forwards and backwards between music.

#### [+]/ [-] buttons

Going forwards and backwards between disc/ folders.

#### [►II] button

Each time you press the button, the music is played or paused.

#### [0] — [9] buttons

When in <Direct Music Search> (page 14) and <Direct Disc Search> (page 14), enters the music/ disc number.

# In TV source

#### [FM] button

Selects the TV band and Video input. Each time you press the [FM] button, TV bands and Video input alternates.

#### [I◄◀]/ [►►I] buttons

Selects the TV channel.

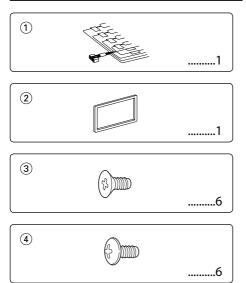
#### [0] — [9] buttons

Press buttons [1] — [6] to recall preset TV channels.

#### [DIRECT] button

Enters and cancels the <Direct TV Tuning> (page 12) mode.

# Accessories



# **Installation Procedure**

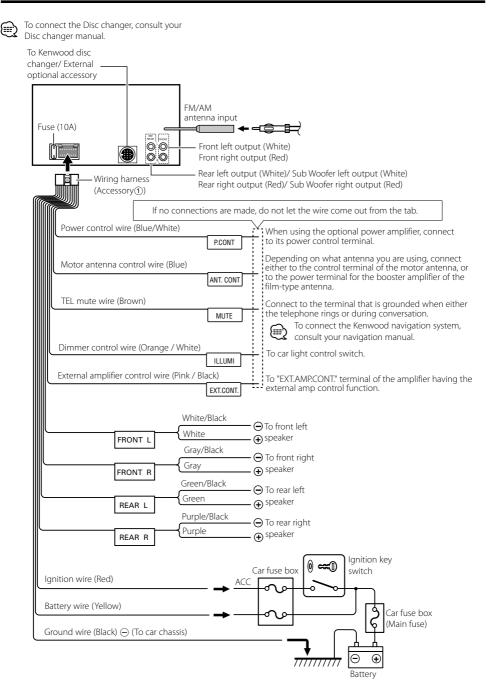
- 1. To prevent a short circuit, remove the key from the ignition and disconnect the  $\bigcirc$  battery.
- 2. Make the proper input and output wire connections for each unit.
- 3. Connect the speaker wires of the wiring harness.
- 4. Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5. Connect the wiring harness connector to the unit.
- 6. Install the unit in your car.
- 7. Reconnect the  $\bigcirc$  battery.
- 8. Press the reset button.

#### 

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

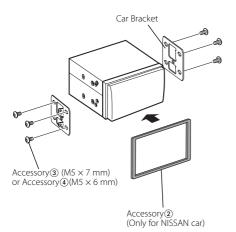
# $\triangle$

- If the power is not turned ON ("PROTECT" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.



# Installation

Install onto the car bracket using the supplied screws (M5  $\times$  6 mm, M5  $\times$  7 mm). The holes of the car bracket to use will differ depending on the car model.



Some functions of this unit may be disabled by some settings made on this unit.

#### Cannot switch to Aux source.

- ► AUX is not turned on. 🖙 <Built-in Auxiliary input Setting> (page 20)
- Cannot set up the subwoofer.
  - Cannot set up subwoofer phase.
  - No output from the subwoofer.
  - Cannot set up the low pass filter.
  - Preout is not set to subwoofer. 
     «
     «
     Switching
     preout> (page 18)
  - <Subwoofer Output> (page 8) is not set to On.

#### Cannot set up the subwoofer phase.

Low pass filter is set to Through. 
 «
 (page 7)

-----

#### I Cannot play audio files.

<CD Read Setting> (page 20) is set to "2".

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

## General

#### ? The Touch Sensor Tone doesn't sound.

- The preout jack is being used.
  - The Touch Sensor Tone can't be output from the preout jack.

#### Tuner source

#### Radio reception is poor.

- The car antenna is not extended.
   Pull the antenna out all the way.
- Pull the antenna out all the way.
   The antenna control wire is not connected.
- The antenna control where is not connected.
   Connect the wire correctly, referring to the section on <Connecting Wires to Terminals> (page 24).

#### **Disc source**

# The specified disc does not play, but another one plays instead.

- The specified CD is quite dirty.
   Clean the CD.
- The disc is loaded in a different slot from that specified.

Eject the disc magazine and check the number for the specified disc.

- ✓ The disc is severely scratched.
- 🖙 Try another disc instead.

#### ing unother disc instead.

#### Audio file source

# The sound skips when an Audio file is being played.

- ✓ The media is scratched or dirty.
  - Clean the media, referring to the CD cleaning of the section on <Handling CDs> (page 4).
- The recording condition is bad.

🖙 Record the media again or use another media.

# The messages shown below display your systems condition.

| EJECT:    | <ul> <li>No disc magazine has been loaded in<br/>the changer. The disc magazine is not<br/>completely loaded.</li> <li>No CD in the unit.</li> </ul>  |
|-----------|---|
| NO DISC:  | No disc has been loaded in the disc magazine.   |
| TOC ERR:  | <ul> <li>No disc has been loaded in the disc<br/>magazine.</li> <li>The CD is quite dirty. The CD is upside-<br/>down. The CD is scratched a lot.</li> </ul>  |
| E-05:     | The disc is unreadable.   |
| BLANK:    | Nothing has been recorded on the MD.  |
| NO TRACK: | No tracks are recorded on the MD, although it has a title.  |
| E-15:     | Media was played that doesn't have data recorded that the unit can play.  |
| NO PANEL: | The faceplate of the slave unit being connected to this unit has been removed.  |
| E-77:     | <ul> <li>The unit is malfunctioning for some reason.</li> <li>➡ Press the reset button on the unit. If the<br/>"E-77" code does not disappear, consult<br/>your nearest service center.</li> </ul>  |
| E-99:     | Something is wrong with the disc magazine.<br>Or the unit is malfunctioning for some reason.<br>➡ Check the disc magazine. And then press<br>the reset button on the unit. If the "E-99"<br>code does not disappear, consult your<br>nearest service center.  |
| HOLD:     | The protective circuit in the unit activates<br>when the temperature inside the automatic<br>disc changer exceeds 60°C (140°F), stopping<br>all operation.<br>← Cool down the unit by opening the<br>windows or turning on the air conditioner.<br>As the temperature falls below 60°C<br>(140°F), the disc will start playing again. |

| LOAD:       | Discs are being exchanged in the Disc changer.   |
|-------------|--|
| READING:    | The unit is reading the data on the disc.  |
| IN (Blink): | <ul> <li>The CD player section is not operating properly.</li> <li>➡ Reinsert the CD. If the CD cannot be ejected or the display continues to flash even when the CD has been properly reinserted, please switch off the power and consult your nearest service center.</li> </ul> |
| PROTECT:    | The speaker wire has a short-circuit or<br>touches the chassis of the vehicle, and then<br>the protection function is activated.<br>↔ Wire or insulate the speaker cable properly<br>and press the reset button.   |
| NA FILE:    | An Audio file is played with a format that this unit can't support.  |
| COPY PRO:   | A copy-protected file is played.   |

Specifications subject to change without notice.

#### FM tuner section

Frequency range (50 kHz space) : 87.5 MHz - 108.0 MHz Frequency range (200 kHz space) : 87.9 MHz - 107.9 MHz Usable sensitivity (S/N = 30dB): 9.3dBf (0.8 μV/75 Ω) Quieting Sensitivity (S/N = 50dB): 15.2dBf (1.6 μV/75 Ω) Frequency response (±3.0dB) : 30 Hz – 15 kHz Signal to Noise ratio (MONO) :70 dB Selectivity (±400 kHz) : ≥ 80 ďB Stereo separation (1 kHz) : 40 dB

#### AM tuner section

 $\label{eq:space-$ 

#### **CD** player section

Laser diode : GaAlAs Digital filter (D/A) : 8 Times Over Sampling D/A Converter : 1 Bit Spindle speed : 1000 – 400 rpm (CLV 2times) Wow & Flutter : Below Measurable Limit Frequency response (±1 dB) : 10 Hz – 20 kHz Total harmonic distortion (1 kHz) : 0.008 % Signal to Noise ratio (1 kHz) : 105 dB Dynamic range : 93 dB MP3 decode : Compliant with MPEG-1/2 Audio Layer-3 WMA decode : Compliant with Windows Media Audio AAC decode : AAC-LC ".m4a" files

#### **Audio section**

Maximum output power : 50 W x 4 Full Bandwidth Power (at less than 1% THD) : 22 W x 4 Speaker impedance : 4 - 8  $\Omega$ Tone action Bass : 100 Hz ± 8 dB Middle : 1 kHz ± 8 dB Treble : 10 kHz ± 8 dB Preout level / Load (during disc play) : 2500 mV/10 k $\Omega$ Preout impedance :  $\leq 600 \Omega$ 

#### **Auxiliary input**

 $\label{eq:spectral_states} \begin{array}{l} \mbox{Frequency response} (\pm 1 \mbox{ dB}) \\ : 20 \mbox{ Hz} & -20 \mbox{ kHz} \\ \mbox{Input Maximum Voltage} \\ : 1200 \mbox{ mV} \\ \mbox{Input Impedance} \\ : 100 \mbox{ k}\Omega \end{array}$ 

#### General

Operating voltage (11 – 16V allowable) : 14.4 V Current consumption : 10 A Installation Size (W x H x D) : 178 x 100 x 155 mm Weight : 1.55 kg